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## SILVER MINES OF PERU.

Supposing the reader to have safely accomplished his journey through the solitary ravines, and over the chilly summits of the Cordilleras, we transport him at once to the Cerro de Pasco, famed for the wealth of its silver mines.

In a region of snow and ice, at an elevation of 18,073 feet above the sea, he suddenly comes in sight of a large and populous city, built in a hollow and surrounded on all sides by lakes and swamps.

On the margin of eternal snows, in the wildest district of Peru, and in defiance of the asperities of the climate, Mammon has assembled a host of worshippers to dig and delve in the richest of his storehouses.

Some two hundred and fifteen years ago, according to the legend, at a small *pampa* that lies South-East from lake Lauricocha, the mother of the mighty river Amazon, an Indian, Hauri Capcha, by name, tended his master's sheep. Having wandered one day to an unusual distance from his hut, he sought shelter from the cold under a rock, and lighted a large fire. The following morning, he saw to his astonishment, that the stone beneath the ashes had melted and become pure silver. He joyfully informed his employer, a Spaniard of the name of Ugarte, of this singular circumstance. Ugarte hastened to the place, and found that his servant had hit upon a vein of silver ore, of extraordinary richness, of which he at once took possession, and worked it with great success. This same mine is still worked, and is known as *la Descubridora*, the discoverer. Presently a number of persons came from the village of Pasco, two leagues distant, and sought and discovered new veins. The great richness of the ore, and the increase of employment soon drew crowds to the place—some to work, others to supply the miners with the necessities of life; and thus, in a brief time, there sprang up a town of eighteen thousand inhabitants.

The ground whereon Cerro de Pasco is built is a perfect net-work of silver veins, to get at which, the earth has been opened in every direction. Many of the inhabitants work the mines in their own cellars; but this, of course, is on a small scale, and there are not more than five hundred openings meriting, by reason of their depth and importance, the name of shafts. All, however, whether deep or shallow, are worked in a very senseless, disorderly and imprudent manner—the sole object of their owners being to obtain at the least possible expense, and in the shortest possible time, the utmost amount of ore. Nobody ever thinks of arching or walling the interior of the excavations, and consequently the shafts and galleries frequently fall in, burying under the ruins the unfortunate Indian miners. Not a year passes without terrible catastrophes of this kind. In the mine of Matagente, (literally, kill people,) now entirely destroyed, three hundred laborers lost their lives by accident. For incuring these terrible risks, and for a species of labor of all others the most painful and wearisome, the Indians are wretchedly paid; and their scanty earnings are diminished by the iniquitous truck system which is in full operation in the mines as well as in the plantations of Peru. The miner who, at the week's end has a dollar to receive, thinks himself fortunate, and forthwith proceeds to spend it in brandy. The mining Indians are the most depraved and wretched of their race. When a mine is in *boya*, as it is called, (that is to say, at periods when it yields uncommonly rich metal,) more laborers are required and temporarily taken on. When this occurs in several mines at one time, the population of Cerro de Pasco sometimes doubles and trebles itself. During the *boya* the miners are paid by a small share in the produce of their labors. They sometimes succeed in increasing their wages by stealing the ore, but this is very difficult, so narrowly are they searched when they leave the mine. One man told Dr. Tschudi how he had managed to appropriate the richest piece of ore he ever saw. He tied it on his back, and pretended to be so desperately ill, that the corporal allowed him to leave the mine. Wrapped in his *puncho*, he was carried past the inspectors by two confederates, and the treasure was put in safety. Formerly, when a mine yielded plentifully, (a black ore in the form of powder, but of great richness,) the miners stripped themselves naked, wetted their whole body, and rolled in this silver dust, which stuck to them. Released from the mine, they washed off the crust, and sold it for several dollars. This device however was detected; and for several years past, the departing miners are compelled to strip for inspection.

Like the extraction of the ore, the purification of the silver from the dross is conducted in the rudest and most primitive manner. The consequence is an immense consumption of quicksilver. On each mark of silver, worth in Lima eight and a half dollars, or about thirty shillings, it is estimated that half a pound of quicksilver is expended. The quicksilver comes chiefly from Spain—very little from Idria—in iron jars containing seventy-five pounds weight. The price of one of these jars varies from sixty to one hundred dollars, but is sometimes as high as one hundred and forty dollars. Both the amalgamation and separation of the metals are so badly managed, as to occasion a terrible amount of mercurial diseases amongst the Indians employed in the process. From the refining houses the silver is, or ought to be, sent to Callana, the government melting-house, there to be cast into bars of a hundred weight, each of which is stamped and charged with imposts to the amount of about four dollars. But a vast deal of the metal is smuggled to the coast and shipped for Europe without ever visiting the Callana. Hence it is scarcely possible to estimate the quantity annually produced. The amount registered is from two to three hundred thousand marks, rarely over the latter sum.

Residence in the Cerro de Pasco is highly disagreeable. The climate is execrable; cold and stormy, with heavy rains and violent falls of snow. Nothing less than the *auri sacra flamma* could have induced such a congregation of human beings, from all nations

and corners of the globe, in so inhospitable a latitude. The new-comer with difficulty accustoms himself to the severity of the weather, and to the perpetual hammering going on under his feet, and at night under his very bed, for the mines are worked without cessation. Luckily earthquakes are rare in that region. A heavy shock would bury the whole town in the bogom of the earth.

Silver being the only produce of the soil, living is very dear in the Cerro. All the necessities of life have to be brought from a great distance; and this combined with the greediness of the vendors, and the abundance of money, causes enormous prices to be demanded and obtained. House-rent is exorbitantly high; the keep of a horse often costs, owing to the want of forage, from two to three dollars a day. Here, as at Lima, the coffee and eating houses are kept by Italians, principally Genoese. The population of the town is the most motley imaginable; scarcely a country in the world but has its representatives. Of the upper classes the darling vice is gambling, carried to an almost unparalleled extent. From earliest morning, cards and dice are in full activity: the mine proprietor leaves his counting-house and silver carts, the trader abandons his shop to indulge for a couple of hours in his favorite amusement; and when the evening comes, play is universal in all the best houses of the town. The mayordomos, or superintendents of the mines, sit down to the gaming table at nightfall, and only leave it when at daybreak the bell summons them to the shaft. Often do they gamble away their share in a *boya* long before signs of one are apparent. Amongst the Indians, drunkenness is the chief failing. When primed by spirits, they become quarrelsome; and scarcely a Sunday or holiday passes without savage fights between the workmen of different mines. Severe wounds, and even deaths, are the consequences of these encounters, in which the authorities never dream of interfering. When, owing to the richness of a *boya*, the Indian finds himself possessed of an unusual number of dollars, he squanders them in the most ridiculous manner, like a drunken sailor with a year's pay in his pocket. Doctor Tschudi saw one fellow buy a Spanish cloak for ninety-two dollars. Drawing it round him, he proceeded to the next town, got drunk, rolled himself in the gutter, and then threw away the cloak because it was torn and dirty. A watch-maker told the doctor that once an Indian came to him to buy a gold watch. He handed him one, with the remark that the price was twelve gold ounces, (two hundred and four dollars,) and that it would probably be too dear for him. The Indian took the watch, paid for it, and then dashing it upon the ground, walked away, saying that the thing was of no use to him.

Besides the mines of Cerro de Pasco, Dr. Tschudi gives us details of many others situated in various parts of Peru. The Salcedo mine, in the province of Puno, is celebrated for the tragical end of its discoverer. Don Sose Salcedo, a poor Spaniard, was in love with an Indian girl, whose mother promised to show him a silver vein of uncommon richness if he would marry her daughter. He did so and worked the vein with great success. After a time the fame of his wealth roused the envy of the Conde de Lemos, then viceroy of Peru. By his generosity and benevolence Salcedo had made himself very popular with the Indians, and this served the viceroy as a pretext to accuse him of high treason, on the ground of his stirring up the population against the Spanish government. Salcedo was imprisoned, and sentenced to death. Whilst in his dungeon he besought Count Lemos to send the papers relating to his